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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,980	12/30/2003	Adrian P. Stephens	42P17911	9697
45209	7590	12/01/2006		
			EXAMINER	
INTEL/BLAKELY			PEREZ, ANGELICA	
12400 WILSHIRE BOULEVARD, SEVENTH FLOOR				
LOS ANGELES, CA 90025-1030			ART UNIT	PAPER NUMBER
			2618	

DATE MAILED: 12/01/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/749,980	STEPHENS, ADRIAN P.
	Examiner	Art Unit
	Perez M. Angelica	2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 30 December 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-20 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 30 December 2003 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 3/6/2006.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application
- 6) Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim (Kim et al.; US 2003/0087645 A1).

Regarding claim 1, Billhartz teaches of a method comprising: determining if there is a better channel available for use in response to an indication associated with an arrival of a co-channel wireless network (paragraphs 1, 12-17; where the variety of nodes constantly monitor the channel available in order to acquire one with better quality).

Regarding claim 2, Billhartz teaches all the limitations of claim 1. Billhartz further teaches of notifying station(s) to change to a different channel (paragraphs 14 and 17; e.g., "broadcast a channel change message").

Regarding claim 3, Billhartz teaches all the limitations of claim 1. Billhartz further teaches of notifying station(s) to restrict a channel width set (paragraph 14; where the change is made according to an available bandwidth).

Regarding claim 4, Billhartz teaches all the limitations of claim 3. Billhartz further teaches of where notifying station(s) to restrict a channel width set comprises: notifying station(s) to remove widths from a channel width set that are not present in a channel width set of the co-channel wireless network (paragraph 34; where the examiner is interpreting where the bandwidths of channels that are interfering are removed, co-channel interfering ones).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 7-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim in view of Billhartz (Billhartz, Tom; US 2004/0203820 A1).

Regarding claims 7, 11 and 16, Kim teaches of an electronic appliance, apparatus (figure 2, item14) and storage medium (figure 2, item 24), comprising: one or

more dipole antenna(e) (figure 2, item 38); one or more wireless network interface(s), coupled with the one or more dipole antenna(e), to communicate with other devices (figure 12, items 33 and 22 coupled to items 38; where interfaces are designed for communication with other devices); control logic coupled with the wireless network interface(s) (figure 2, item 20), and a manager engine coupled with the wireless network interface(s) (paragraphs 26 and 28; where the network management system or AP requires interfacing with the elements of the system, where the management system checks and manages the allocation of channels according to load, quality).

Kim does not specifically teach where the manager engine determines if there is a better channel available to use in response to an indication associated with an arrival of a co-channel wireless network.

Billhartz better teaches if there is a better channel available to use in response to an indication associated with an arrival of a co-channel wireless network (paragraphs 1, 12-17; where the variety of nodes constantly monitor the channel available in order to acquire one with better quality).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Kim's appliance with Billhartz' better channel availability in order to "efficiently make use of a plurality of channels", as taught by Billhartz.

Regarding claims 9, 13 and 18, Kim and Billhartz teach all the limitations of claims 1, 11 and 16, respectively. Billhartz further teaches of notifying station(s) to change to a different channel (paragraphs 14 and 17; e.g., "broadcast a channel change message").

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Kim's appliance with Billhartz' notification in order for the other units to adjust their channel data tables, as taught by Billhartz.

Regarding claims 15 and 20, Kim and Billhartz teach all the limitations of claims 13 and or claim 16, respectively. Kim further teaches where the control logic to notify station(s) comprises control logic to transmit an Institute of Electrical and Electronics Engineers (IEEE) 802.11 compliant beacon (paragraphs 29 and 34).

Regarding claims 8, 12 and 17, Kim and Billhartz teach all the limitations of claims 7, 11 and 16, respectively. Kim further teaches where the control logic to determine if there is a better channel available to use comprises control logic to search for an unused channel (paragraph 34: e.g., "idle channel").

Regarding claims 10, 14 and 19, Kim and Billhartz teach Billhartz teaches all the limitations of claim 1.

Billhartz further teaches of notifying station(s) to restrict a channel width set (paragraph 14; where the change is made according to an available bandwidth).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Kim's appliance with Billhartz' channel restrictions according to bandwidth availability in order to better use the available resources, as taught by Billhartz.

5. Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Billhartz in view of Kim.

Regarding claim 5, Billhartz teaches all the limitations of claim 5.

Kim further teaches where the to determine if there is a better channel available to use comprises to search for an unused channel (paragraph 34: e.g., "idle channel").

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Billhartz's appliance with Kim's idle channel determination in order to better allocate channels, as taught by Kim.

Regarding claim 6, Billhartz teaches all the limitations of claim 5.

Kim further teaches where the control logic to notify station(s) comprises control logic to transmit an Institute of Electrical and Electronics Engineers (IEEE) 802.11 compliant beacon (paragraphs 29 and 34).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Billhartz's appliance with Kim's (IEEE) 802.11 protocol in order to for terminals to communicate with each other according to the (IEEE) 802.11 standards, as taught by Kim.

Conclusion

6. Enquiry concerning this communication or earlier communications from the examiner should be directed to Angelica Perez whose telephone number is 571-272-7885. The examiner can normally be reached on 6:00 a.m. - 1:30 p.m., Monday - Friday.

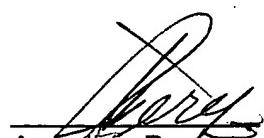
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on (571) 272-7882. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-8300 for regular communications and for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either the PAIR or Public PAIR. Status information for unpublished applications is available through the Private PAIR only. For more information about the pair system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). Information regarding Patent Application Information Retrieval (PAIR) system can be found at 866-217-9197 (toll-free).

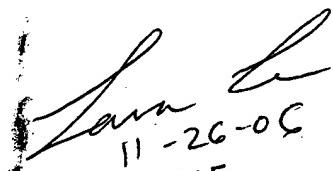
Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2600's customer service number is 703-306-0377.

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Angelica Perez
Examiner



11-26-05
LANA LE
PRIMARY EXAMINER

Art Unit 2618

November 22, 2006